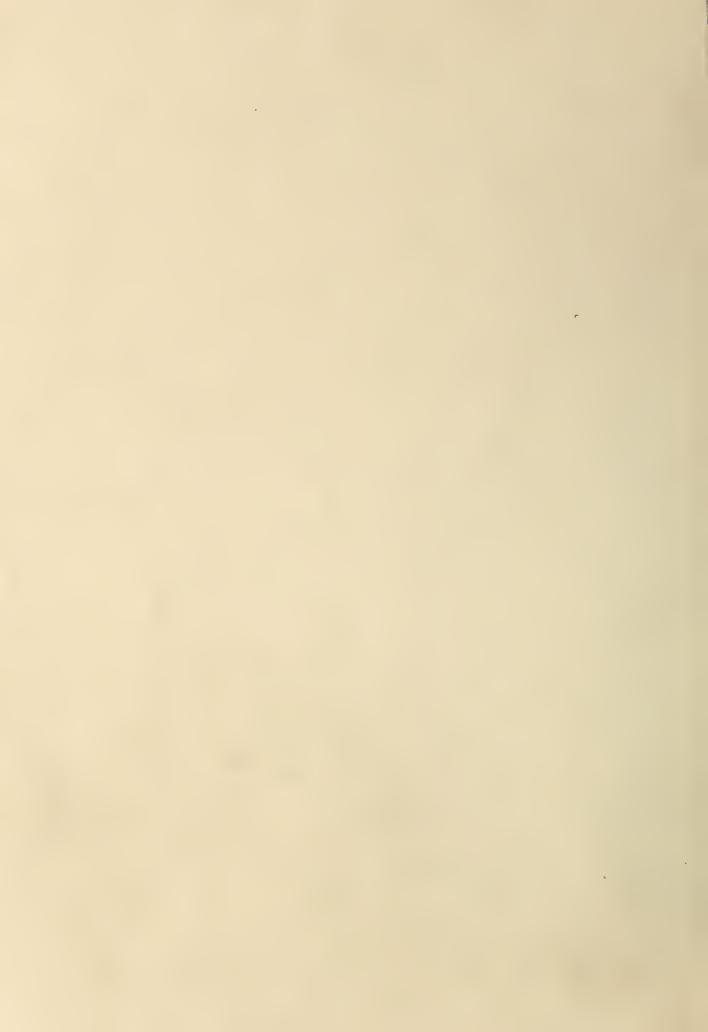
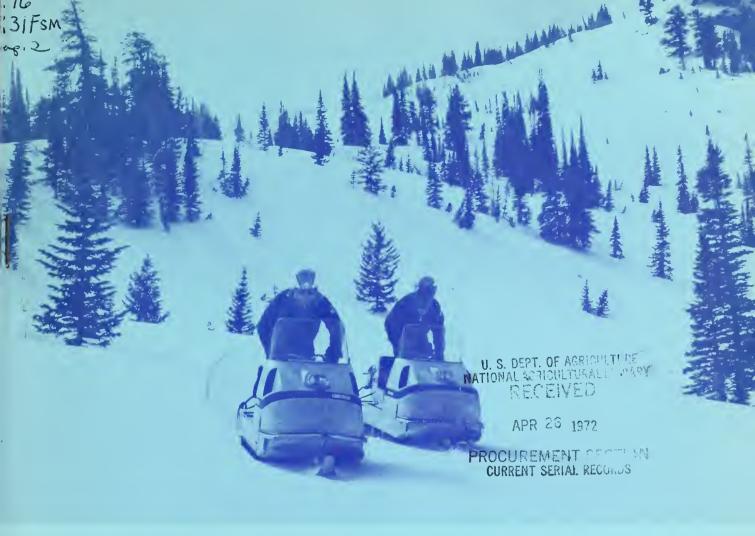
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Do not assume content reflects current scientific knowledge, policies, or practices.





WATER SUPPLY OUTLOOK FOR COLORADO AND NEW MEXICO

Prepared by

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

COLORADO STATE UNIVERSITY EXPERIMENT STATION STATE ENGINEER of COLORADO and STATE ENGINEER of NEW MEXICO

Data included in this report were obtained by the agencies named above in cooperation with the Bureau of Reclamation, U.S. Forest Service, National Park Service, Corps of Engineers and other Federal, State and private organizations.

APR. 1, 1972

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snawfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflaw. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mauntain snowpack.

Forecasts become mare accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made an later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each lacation. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snaw surveys are made monthly ar semi-monthly fram January 1 through June 1 in mast states. There are about 1900 snaw caurses in Western United States and in the Columbia Basin in British Columbia. Networks af autamatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters of key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservair storage, summaries of precipitatian, current streamflow, and sail moisture canditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 af each year.

COVER PHOTO NUMBER ORC 221-3

PUBLISHED BY SOIL CONSERVATION SERVICE

The Sail Conservation Service publishes reports fallowing the principal snow survey dates from January 1 through June 1 in coaperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Partland, Oregon 97209.

Copies of state and local reparts may also be obtained from state offices af the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phaenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Calarado 80217
Idaha	Room 345, 304 N. 8th. St., Baise, Idaho 83702
Montana	P. O. Bax 970, Bazeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washingtan St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washingtan	360 U.S. Court House, Spokane, Washington 99201
Wyaming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

WATER SUPPLY OUTLOOK FOR COLORADO AND NEW MEXICO

and FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

KENNETH E. GRANT

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.

Released by

M. D. BURDICK

STATE CONSERVATIONIST SOIL CONSERVATION SERVICE DENVER, COLORADO KENNETH L. WILLIAMS

STATE CONSERVATIONIST SOIL CONSERVATION SERVICE ALBUQUERQUE, NEW MEXICO

In Cooperation with

DONALD F. HERVEY

DIRECTOR C S U EXPERIMENT STATION S. E. REYNOLDS

STATE ENGINEER STATE OF NEW MEXICO C. J. KUIPER

STATE ENGINEER STATE OF COLORADO

Report prepared by

JACK N. WASHICHEK, Snow Survey Supervisor and

RONALD E. MORELAND, Assistant Snow Survey Supervisor

SOIL CONSERVATION SERVICE SNOW SURVEY UNIT P.O. BOX 17107 DENVER, COLORADO 80217

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Describes water supply conditions in Fort Collins, Big Thompson, Longmont, Boulder Valley, Jefferson, Teller-Park, Douglas County, Morgan, Kiowa, West Arapahoe, West Adams, East Adams, Platte Valley, Southeast Weld, and West Greeley Soil Conservation Districts.

WATERSHED II - ARKANSAS RIVER WATERSHED

Describes water supply conditions in Lake County, Upper Arkansas, Fremont, Custer County Divide, Fountain Valley, Black Squirrel, Horse-Rush Creek, Central Colorado, Turkey Creek, Pueblo, Bessemer, Olney Boone, Cheyenne, Upper Huerfano, Stonewall, Spanish Peaks, Purgatoire, Branson Trinchera, Western Baca, Southeastern Baca, Two Buttes, Bent, Timpas, Northeast Prowers, Prowers, Kiowa County, West Otero, East Otero, and Big Sandy Soil Conservation Districts.

WATERSHED III -RIO GRANDE WATERSHED (COLORADO)

Describes water supply conditions in Rio Grande, Center, Conejos, Mosca Hooper, Mt. Blanca, Sanchez, and Culebra Soil Conservation Districts.

WATERSHED IV -RIO GRANDE WATERSHED (NEW MEXICO)

Describes water supply conditions in Upper Chama, East Rio Arriba, Taos, Lindrith, Jemez, Santa Fe - Pojoaque, Sandoval, Tijeras, Cuba, and Edgewood Soil Conservation Districts.

WATERSHED V - DOLORES, SAN JUAN, AND ANIMAS RIVERS WATERSHED

Describes water supply conditions in San Miguel Basin. Dove Creek, Dolores, Mancos, LaPlata, Pine River, San Juan, San Miguel Basin, and Glade Park Soil Conservation Districts.

WATERSHED VI - GUNNISON RIVER WATERSHED

Describes water supply conditions in Delta, Gunnison, Cimarron, Shavano, and Uncompangre Soil Conservation Districts.

WATERSHED VII - COLORADO RIVER WATERSHED

Describes water supply conditions in DeBeque, Plateau Valley, Lower Grand Valley, Bookcliff, Eagle County, Middle Park, Glade Park, Upper Grand Valley, South Side, and and Mt. Sopris Soil Conservation Districts.

WATERSHED VIII -YAMPA, WHITE AND NORTH PLATTE RIVERS WATERSHED

Describes water supply conditions in Yampa, Moffat, West Routt, East Routt, North Park, White River, and Douglas Creek Soil Conservation Districts.

WATERSHED IX - LOWER SOUTH PLATTE RIVER WATERSHED

Describes water supply conditions in Sedgwick, South Platte, Haxton, Peetz, Padroni, Morgan, Rock Creek, and Yuma Soil Conservation Districts.

APPENDIX I - SNOW SURVEY MEASUREMENTS

APPENDIX II - SOIL MOISTURE MEASUREMENTS

WATER SUPPLY OUTLOOK

as of April 1, 1972



The map on this page indicates the most probable water supply as of the date of this report. Estimates assume average conditions of snow fall, precipitation and other factors from this date to the end of the forecast period. As the season progresses accuracy of estimates improve. In addition to expected streamflow, reservoir storage, soil moisture in irrigated areas, and other factors are considered in estimating water supply. Estimates apply to irrigated areas along the main streams and may not indicate conditions on small tributaries.

WATER SUPPLY CONDITIONS

April 1, 1972

SNOWFALL WAS MUCH BELOW NORMAL FOR THE TWO STATE AREA FOR THE SECOND STRAIGHT MONTH. MANY SNOW COURSES ARE NEARING THE MINIMUM OF RECORD EXPECIALLY IN SOUTHERN COLORADO AND NEW MEXICO. STREAMFLOW FORECASTS WERE REDUCED ACCORDINGLY. SOME FORECASTS WERE REDUCED AS MUCH AS 30 PERCENT. RESERVOIR CARRY-OVER STORAGE IS GOOD IN THE NORTHERN HALF OF COLORADO AND NEAR NORMAL OVER THE REMAINDER OF THE TWO STATES. THIS WILL HELP AUGMENT THE EXPECTED LOW STREAMFLOW. SOIL MOISTURE IN THE MOUNTAINS HAS BEEN INCREASED DUE TO MELTING SNOW; HOWEVER, VALLEY SOILS REMAIN DRY.

THE NORTHERN THIRD OF COLORADO CAN STILL EXPECT NEAR NORMAL STREAMFLOW; HOWEVER, THESE FORECASTS HAVE BEEN LOWERED AS MUCH AS 20 PERCENT. FORECASTS ON THE SOUTH PLATTE STREAMS VARY FROM 86 PERCENT OF NORMAL TO A HIGH OF 92 PERCENT. RESERVOIR STORAGE IS EXCELLENT. THE ARKANSAS SHOULD FLOW ABOUT 85 PERCENT AND HAS NEAR AVERAGE STORAGE. THE RIO GRANDE AND SAN JUAN BASINS WILL HAVE A SHORTAGE OF WATER UNLESS APRIL PRODUCES MUCH ABOVE NORMAL SNOW. THE COLORADO MAINSTEM AND YAMPA-WHITE RIVERS SHOULD PROVIDE ADEQUATE WATER IF APRIL SNOWFALL IS NORMAL.

-- STREAMFLOW FORECASTS HAVE BEEN REDUCED AS MUCH AS

NEW MEXICO 30 PERCENT REFLECTING THE MUCH BELOW AVERAGE SNOWFALL

DURING FEBRUARY AND MARCH. TEMPERATURES HAVE BEEN UNSEASONABLY

HIGH AND HAVE CAUSED CONSIDERABLE SNOW MELT. RIVERS HAVE STARTED TO RISE.

CARRY-OVER STORAGE WAS DEPLETED LAST YEAR AND NOW STANDS AT 59 PERCENT.

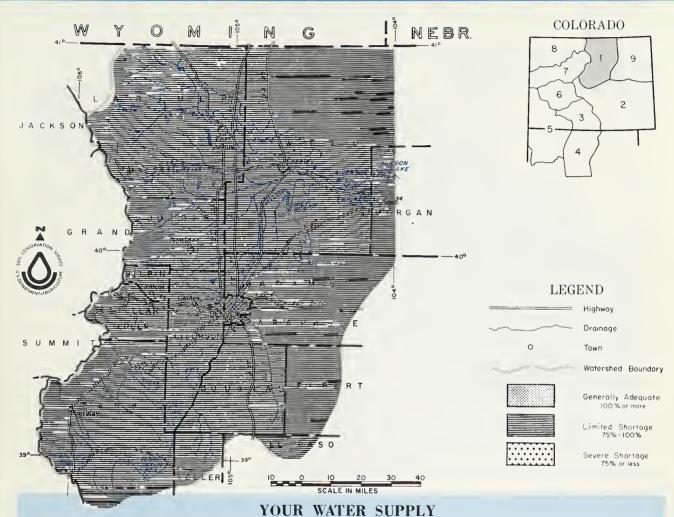
MOUNTAIN SOILS ARE WET REFLECTING THE MELTING SNOW. NAVAJO INFLOW FROM

SAN JUAN RIVER WILL ALSO BE MUCH BELOW NORMAL.

WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE SOUTH PLATTE RIVER WATERSHED IN COLORADO

as of April 1, 1972

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



WATER SUPPLY CUTLOOK WAS REDUCED SHARPLY THIS MONTH DUE TO ABOVE NORMAL TEMPERATURES AND LACK OF SNOWFALL. ALL STREAMS ON THE SOUTH PLATTE ARE EXPECTED TO FLOW LESS THAN NORMAL. CARRY-OVER RESERVOIR STORAGE IS EXCELLENT AND SHOULD PROVIDE ADEQUATE WATER SUPPLIES FOR MOST AREAS. SOIL MOISTURE IS DEFICIENT. ACDITIONAL SNOW AND/OR RAIN IS NEEDED IN VALLEYS AND MOUNTAINS DURING APRIL TO ASSURE A GOOD WATER SUPPLY THIS MONTH.

This report prepared by JACK N. WASHICHEK and RONALO E. MORELAND SNOW SURVEY UNIT. SOIL CONSERVATION SERVICE OENVER, COLORAGO

M. D. BURDICK...STATE CONSERVATIONIST

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

DENVER, COLORADO

OENVER, COLORADO

STREAMFLOW FORECASTS (1000 Ac. Ft.) Apr-Sept

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply

JINEMINI EGO T GINEGINGTO (1000 T				WINIER OUT ET OUTEOUT CERT	mili Kespeci	to Osuai Supply
	FORE-	% of	+		Flow F	Period
FORECAST POINT	CAST	Average	Average	STREAM or AREA	Spring Season	Late Season
Big Thompson at Drake	90	90	100	Bear Creek	Avg.	Avg.
(1)				Coal Creek	Avg.	Avg.
Boulder at Orodell	45	92	49	North Fork of South		
Cache La Poudre at				Platte	Avg.	Avg.
Canyon Mouth (2)	195	91	215	North Fork of Cache		
Clear Creek at Golden	105	88	119	La Poudre	Avg.	Avg.
(3)				Ralston Creek	Avg.	Avg.
St. Vrain at Lyons (4)	60	86	70	Rock Creek	Avg.	Avg.
(1) (1) -1 (1) 1 1	(0) (0)	1 , a	1	1, , , , , , , , , , , , , , , , , , ,	1,	101 10

(1) Observed flow plus by—pass to power plants. (2) Observed flow minus trans—basin diversions plus municipal and irrigation diversions. (3) Observed flow minus diversion through August P. Gumlick Tunnel. (4) Observed flow plus change in storage in Price Reservoir.

SUMMARY Of SNOW MEASUREMENTS

SOIL MOISTURE

(COMPARISON WITH PREVIOUS YE	ARS)				
RIVER BASIN and/or	Number of Courses	THIS YEAR'S SNOW WATER AS PERCENT OF			
SUB-WATERSHED	Averaged	Last Year	Average +		
Big Thompson	5	81	97		
Boulder	3	96	97		
Cache La Poudre	6	73	96		
Clear Creek	6	78	86		
Saint Vrain	3	89	92		
South Platte	3	117	113		

SOIL MOISTURE

RIVER BASIN	Number of	THIS YEAR'S MOISTURE as PERCENT OF:			
	Stations	Last Year	Average 🕇		
Big Thompson	-				
Boulder	-				
Cache La Poudre	-				
Clear Creek	2	93	121		
Saint Vrain	_				
South Platte	2	114	130		

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

		LIND OI	1011111	HEORITOIN OTOMINE (2110 01 11					
Usable	Usable Storage				Usable	Usable Storage						
Capacity	This Year	Last Year	Average †	RESERVOIR	Capacity	This Year	Last Year	Average +				
33.0	15.9	15.9	10.6	Halligan	6.4	6.4	3.3	4.7				
32.2	28.0	26.2	21.1	Horsetooth	143.5	122.9	116.5	106.8				
8.0	4.7	4.4	3.3	Lake Loveland	14.3	12.2	10.9	8.4				
44.0		44.8	27.6	Lone Tree	9.2	7.8	8.7	6.6				
9.5	8.0	8.0	7.5	Mariano	5.4	5.2	5.4	4.2				
	107.5	106.4	81.7	Marshall	10.3	6.0	7.0	3.0				
8.8	1.9	4.5	3.0	Marston	18.0	15.5	16.3	14.7				
		73.5	49.0	Milton	24.4	17.8	15.9	10.8				
34.3	20.3	21.9	9.9	Standley	42.0	30.3	31.0	11.0				
	1	96.4	72.1	Terry Lake	8.2	5.8	6.4	5.0				
	_		7.0	Union	12.7	12.1	12.7	7.6				
43.1	25.2	36.7	22.4	Windsor	l 18.6	13.7 ¹	8 . 73	-1967 g. g.				
	33.0 32.2 8.0 44.0 9.5 108.9 8.8 79.0 34.3 97.8 11.6	Usable Capacity This Year 33.0 15.9 32.2 28.0 4.7 44.0 36.4 9.5 8.0 107.5 8.8 1.9 79.0 34.3 20.3 97.8 78.0 11.6 8.8	Usable Capacity This Year 15.9 15.9 32.2 28.0 26.2 8.0 4.7 4.4 44.0 36.4 44.8 9.5 8.0 8.0 108.9 107.5 106.4 8.8 1.9 4.5 79.0 79.0 73.5 34.3 20.3 21.9 97.8 78.0 96.4 11.6 8.8 9.5	Usable Capacity Usable Storage This Year Last Year Average † 33.0 15.9 15.9 10.6 32.2 28.0 26.2 21.1 8.0 4.7 4.4 3.3 44.0 36.4 44.8 27.6 9.5 8.0 8.0 7.5 108.9 107.5 106.4 81.7 8.8 1.9 4.5 3.0 79.0 79.0 73.5 49.0 34.3 20.3 21.9 9.9 97.8 78.0 96.4 72.1 11.6 8.8 9.5 7.0	Usable Capacity This Year Average T	Usable Capacity Usable Storage RESERVOIR Usable Capacity 33.0 15.9 15.9 10.6 Halligan 6.4 32.2 28.0 26.2 21.1 Horsetooth 143.5 8.0 4.7 4.4 3.3 Lake Loveland 143.5 9.5 8.0 8.0 7.5 Mariano 5.4 108.9 107.5 106.4 81.7 Marshall 10.3 8.8 1.9 4.5 3.0 Marston 18.0 79.0 79.0 73.5 49.0 Milton 24.4 34.3 20.3 21.9 9.9 Standley 42.0 97.8 78.0 96.4 72.1 Terry Lake 8.2 11.6 8.8 9.5 7.0 Union 12.7	Usable Capacity Usable Storage RESERVOIR Usable Capacity Usable Capacity This Year This Year <th <="" colspan="4" td=""><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td></th>	<td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td>				$ \begin{array}{c c c c c c c c c c c c c c c c c c c $

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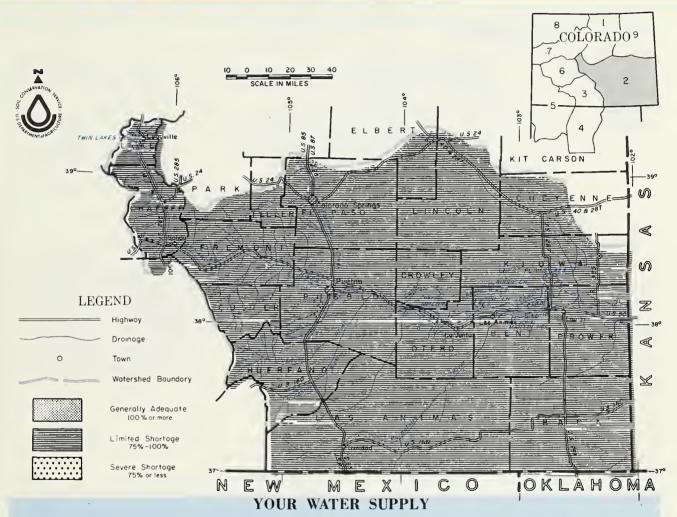
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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE ARKANSAS RIVER WATERSHED IN COLORADO

as of

April 1, 1972

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



STREAMFLOW FORECASTS HAVE BEEN REDUCED SHARPLY THIS MONTH. THE SNOWPACK HAS DECREASED MORE RAPIDLY THAN USUAL BECAUSE OF WARM TEMPERATURES AND BELOW NORMAL SNOWFALL. RESERVOIR STORAGE IS ABOUT 70 PERCENT OF AVERAGE EXCLUDING TURQUOISE RESERVOIR WHICH HAS 59,000 A.F. COMPARED TO 52,400 A.F. LAST YEAR. WATER SUPPLIES WILL BE BELOW NORMAL UNLESS ABOVE AVERAGE PRECIPITATION IS RECEIVED DURING THE REMAINDER OF THE SEASON.

This report prepared is

JACK N WASHIGHER and RONALO E. MORELAND

SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE

OENVER, COLORADO

M. O. BURDICK...STATE CONSERVATIONIST

W.O. McCORKLE:..AREA CONSERVATIONIST

U. S. DEPARTMENT OF A GRICULTURE - SOIL CONSERVATION SERVICE

OENVER. COLORADO

LA JUNTA, COLORAGO

STREAMFLOW FORECASTS (1000 Ac. Ft.) Apr-Sept

WATER SUPPLY DUTLINGK Expressed as "Poor, Fair, Average, Ex-

				WATER SUITE OUTLOUR CO	ellent" With Respe	ct to Usuai Sup
FORECAST POINT	FORE- CAST	% of Average	† Average	STREAM or AREA	Spring	Period Late
Arkansas nr Pueblo (1) Arkansas at Salida (1) Cucharas nr LaVeta Purgatoire at Trinidad	240 260 10 30	81 84 83 65	298 309 12 46	Apishapa Fountain Creek Grape Hardscrable Creek Huerfano Monument Creek	Avg. Avg. Avg. Avg. Avg. Avg.	Poor Poor Poor Poor Poor Poor

(1) Observed flow plus change in Clear Creek, Twin Lakes and Turquoise Reservoirs minus diversions through Busk Ivanhoe, Divide, Twin Lakes and Homestake Tunnels and Ewing, Front Pass, Wurtz and Colombine ditches.

SUMMARY of SNOW MEASUREMENTS

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged		AR'S SNOW PERCENT OF Average +	RIVER BASIN	Number of Stations		S MOISTURE CENT OF: Average †
Arkansas Cucharas and	10	91	94	Arkansas Cucharas and	3	89	88
Purgatoire	3	117	39	Purgatoire]	87	87

RESERVOIR STORAGE (Thousand Ac Ft) END OF MONTH

RESERVOIR STORAGE (Thousand Ac Ft) END OF MONTH

MESERADIK SIONAGE (Housanu	No. 11.	END OF	MONTH	WESTKAOIK SLOWAGE (nousanu .	nu. (.)	END OF M	10NTH	
RESERVOIR	Usable	able Usable Storage		RESERVOIR	D Usable		Usable Storage			
RESERVOIR	Capacity This Year		Last Year	Average †	RESERVOIR	Capacity	This Year	Last Year	Average †	
Adobe Clear Creek Cucharas Great Plains Horse Creek	61.6 11.4 40.0 150.0 26.9	5.7	47.5 6.0 108.6 9.8	11.1 7.3 3.3 38.3 4.9	John Martin Meredith Model Turquoise Twin Lakes	353.9 41.9 15.0 130.0 57.9	25.4 7.8 59.0 31.4	25.6 1.3 52.4 41.5	89.4 10.0 3.1 7.5 19.9	
								+ 1953	-1967 period.	

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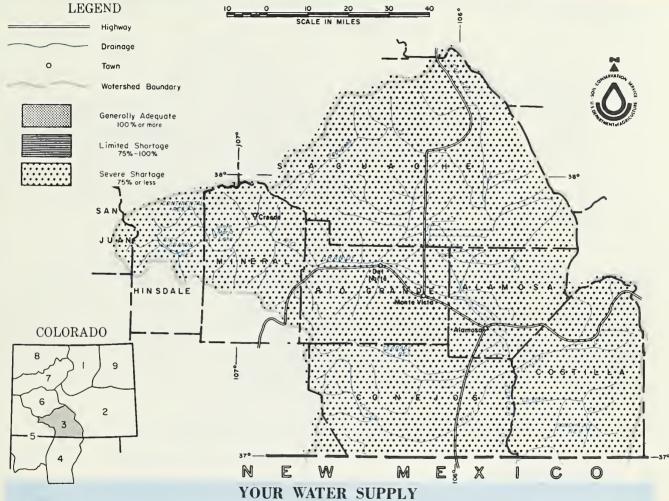


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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE UPPER RIO GRANDE WATERSHED IN COLORADO

as of April 1, 1972

U.S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



STREAMFLOW FORECASTS HAVE BEEN DRASTICALLY REDUCED DUE TO WARM TEMPERATURES AND PRACTICALLY NO SNOW. MANY SNOW COURSES HAVE MUCH LESS SNOW THAN MARCH FIRST WHICH IS QUITE UNUSUAL. RESERVOIR STORAGE IS SLIGHTLY ABOVE NORMAL. THIS WILL SUPPLEMENT THE BELOW NORMAL FLOWS. SOILS IN THE IRRIGATED AREA OF THE BASIN ARE DRY. SNOWFALL MUST BE MUCH ABOVE NORMAL DURING APRIL OR SHORTAGES CAN BE EXPECTED.

This report prepared by

JACK N. WASHICHEK and RONALO E. MORELAND
SÑOW SURVEY UNIT, SOIL CONSERVATION SERVICE
OENVER COLORADO

M. D. BURDICK --- STATE CONSERVATIONIST KENNETH A. PITNEY --- AREA CONSERVATIONIST

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
DENVER, COLORADO DURANGO, COLORADO

STREAMFLOW FORECASTS (1000 Ac. Ft.) Apr-Sept

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREMMITEUM TUREUMSTS (1000 P	16. I L.)			WAILK SUITE OUTLOOK cells	ent" With Respec	t to Usual Supply.	
FORE- % of +					Flow Period		
FORECAST POINT	CAST	Average	Average	STREAM or AREA	Spring Season	Late Season	
Alamosa abv Terrace Conejos nr Mogote Culebra at San Luis (2)	40 120 15	65 66 79	62 182 19	Saguache Creek Sangre de Cristo Cr. Trinchera	Poor Poor Poor	Poor Poor Poor	
Rio Gr. at 30 Mile Bridge (3) Rio Gr. nr Del Norte (3)	90 330	77 75	117 438 438				
South Fork at South Fork	77	70	110				

(1) Observed flow plus change in storage in Platoro Reservoir. (2) Observed flow plus change in Sanchez Reservoir. (3) Observed flow plus change in Storage in Santa Maria, Rio Grande and Continental Reservoirs.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

SOIL !	0N	IST	URE
--------	-----------	-----	-----

RIVER BASIN and/or	Number of Courses	THIS YEAR'S SNOW WATER AS PERCENT OF		RIVER BASIN	Number	as PER	S MOISTURE CENT OF:
SUB-WATERSHED	Averaged	Last Year	Average +		Stations	Last Year	Average +
Alamosa Conejos Culebra Rio Grande	2 3 2 10	105 83 135 119	76 43 62 75	Alamosa Conejos Culebra Rio Grande	1 1 2	112 117 90	168 90 87

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable	Us	Usable Storage				Usable	U	sable Stora	ge
KESEKVOIK	Capacity	This Year	Last Year	Average †	RESERVOIR	Capacity	This Year	Last Year	Average †	
Continental Platoro Rio Grande	26.7 60.0 45.8	6.2 2.9 18.1	10.0 2.9 41.6	7.1	Sanchez Santa Maria Terrace	103.2 45.0 17.7		0.0	11.1 6.0 4.0	

+ 1953-1967 period.

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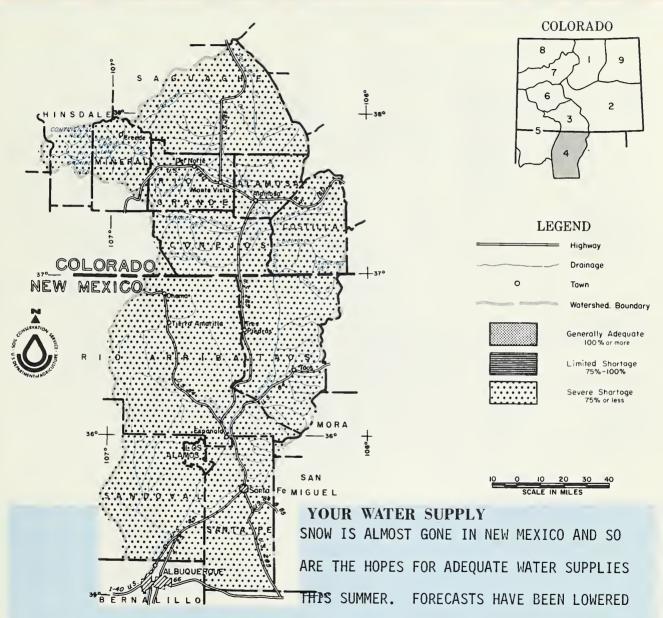


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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE RIO GRANDE WATERSHED IN NEW MEXICO

as ofApril 1, 1972

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



FOR THE SECOND STRAIGHT MONTH. FORECASTS NOW ARE FOR 50 TO 75 PERCENT OF THE 15 YEAR AVERAGE. THIS WILL NOT PROVIDE ADEQUATE WATER TO ALL USERS. RESERVOIR STORAGE IS BELOW NORMAL. SOILS IN THE IRRIGATED AREAS ARE DRY.

This report prepared by

JACK N. WASHICHEK and RONALD E. MORELANO
SNOW SURVEY UNIT. SOIL CONSERVATION SERVICE

OENVER, COLORAGO

Issued by

KENNETH L. WILLIAMS--STATE CONSERVATIONIST

U. S. DEPARTMENT OF A GRICULTURE - SOIL CONSERVATION SERVICE

ALBUQUERQUE, NEW MEXICO

SANTA FE, NEW MEXICO

STREAMFING FIRE CONTRACT (1000 Ac Ft.) May-101 WATER SIDDLY OUTLONK

Expressed	as	"Poor,	Fair,	Avera	age,	E×-
cellent"	With	Respe	ct to	Usual	Sup	ply.

SINEMIFEUM FUNECASIS (1000 F	(6. rt.)	ria i -	ou,	WATER SUPPLY UNILOUN cell	ent" With Respect	to Usual Supply.
FORFCAST COUNT	FORE-	% of	+		Flow F	Period
FORECAST POINT	CAST	Average	Average	STREAM or AREA	Spring Season	Late Season
Costilla at Cost. (1) Pecos at Pecos Rio Chama at El Vado Rio Gr. at Otowi (2) Rio Gr. at San Mar (2) Rio Hondo nr Valdez Red R. at mouth nr Questa	10 25 125 360 200 10	56 61 67 70 60 67	18 41 188 513 334 15	Embudo Creek Jemez River Mora River Nambe Creek Rio Ojo Caliante Rio Pueblo de Taos Sante Fe Creek	Poor Poor Poor Poor Poor Poor	Poor Poor Poor Poor Poor Poor
The formers of the Bir County on Son Maniel is	31	Also Assessed		the Electron Burn letter to Birth and Children		

The forecast of the Rio Grande at San Marcial is % of the Average used by the Elephant Butte Irrigation District. (1) Observed flow plus change in Costilla Reservoir. (2) Observed flow plus change in storage in El Vado and Abiquiu Reservoir.

SUMMARY of SNOW MEASUREMENTS

SOIL MOISTURE

(COMPARISON	WITH	PREVIOUS	YEARS)

RIVER BASIN	Number of		AR'S SNOW
and/or	Courses		PERCENT OF
SUB-WATERSHED	Averaged	Last Year	Average +
Pecos	1	0	0
Rio Chama	4	113	33
Rio Grande, N.M.	12	141	30
Rio Hondo	1	440	
Red River	2	147	28

RIVER BASIN	Number	THIS YEAR'S	
	Stations	Last Year	Average †
Pecos Rio Chama Rio Grande Red River	2 2 4 1	113 146 167 107	139 131 137 84

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR STORAGE (Thousand I	AC.	Ft.)	END OF MONTH
-------------------------------	-----	------	--------------

BECCBYOLD	Usable	Usable Sto		age	BESERVOIR	Usable	L	sable Stora	age
RESERVOIR	Capacity	This Year	Last Year	Average	RESERVOIR	Capacity	This Year	Last Year	Average
Alamorgordo Caballo Conchas Elephant Butte	111 344 273 2195	45 35 78 204	60 43 153 317	64 65 161 334	El Vado McMillen-Avalon	195 32	2 9	1 15	6 22

1953-1967 period.

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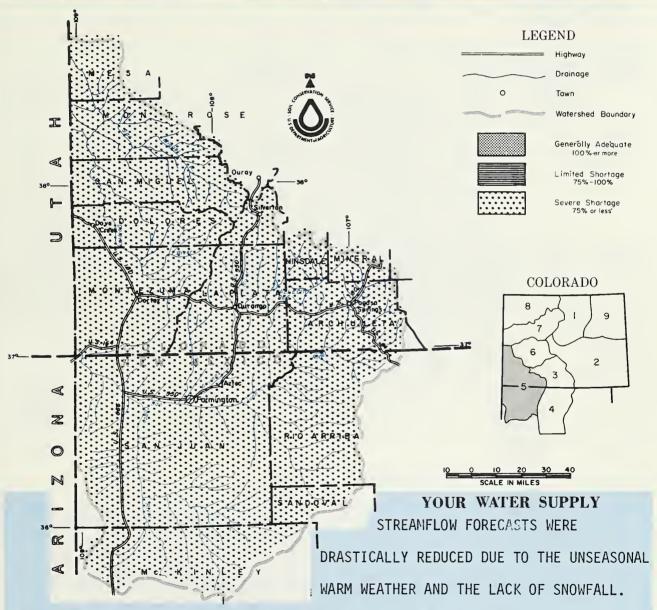


FIRST CLASS

WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE SAN MIGUEL, DOLORES, ANIMAS, SAN JUAN WATERSHEDS IN COLORADO AND NEW MEXICO

April 1, 1972

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLORADO EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



SOME SNOW COURSES INDICATE A NEAR RECORD LOW PACK. MOUNTAIN AND VALLEY SOILS ARE DRY. CARRY-OVER STORAGE IS SLIGHTLY BETTER THAN AVERAGE. CONSIDERABLY MORE SNOW IS NEEDED TO PROVIDE ENOUGH WATER FOR NORMAL CROP PRODUCTION.

This report prepared by

JACK N. WASHICHEK and RONALO E. MORELANO
SNOW SURVEY UNIT., SOIL CONSERVATION SERVICE
OENVER, COLORAGO

Issued by

IM. O. BURDICK—ISTATE CONSERVATIONIST
OENVER, COLORADO

U. Ş. DEPARTMENT OF A GRICULTURE - SOIL CONSERVATIONIST
KENNETH L. WILLIAMS...STATE CONSERVATIONIST
ALBUQUERQUE. NEW MEXICO
SERVATOR

KENNETH A. PITATEY—AREA CONSERVATIONIST
OURANGO, COLORADO

SANTA FE. NEW MEXICO
SANTA FE. NEW MEXICO

STREAMFLOW FORECASTS (1000 Ac. Ft.) Apr-Sept WATER SIIPPLY DILTIONK Expressed as "Poor, Fair, Average, Ex-

STREAMILENT TOREDASTS (1000 No. 14.)				MAILN SUFFLI UUILUUN cell	ent" With Respect	to Usual Supply.
	FORE-	% of	+		Flow P	eriod
FORECAST POINT	CAST	Average	Average	STREAM or AREA	Spring Season	Late Season
Animas at Durango Dolores at Dolores La Plata at Hesperus Los Pinos at Bayfield (1) Piedra Cr. at Piedra San Juan at Carracas Inflow to Navajo Res. (1) (Apr-Jul)	300 150 16 136 105 250 390	73 65 67 70 64 66 63	409 231 24 194 163 379 619	Florida Mancos San Miguel	Avg. Avg. Avg.	Poor Poor Poor

SUMMARY of SNOW MEASUREMENTS

SOIL MOISTURE

RIVER BASIN and/or Courses Averaged Last Year Average THIS YEAR'S SNOW WATER AS PERCENT OF Last Year Average T	
SUB-WATERSHED Averaged Last Year Average +	RIVE
Animas 1 83 77 Dolores 4 70 54 San Juan 5 100 58	Animas Dolores San Juan

RIVER BASIN	Number	THIS YEAR'S MOISTURI as PERCENT OF:		
	Stations	Last Year	Average +	
Animas Dolores San Juan	3 2 1	87 96 83	82 97 77	

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable	U	Usable Storage Usable Usable Usable Stora			Usable Usable		ge	
RESERVOIR	Capacity	This Year	Last Year	Average	KESEKVOIK	Capacity	This Year	Last Year	Average †
Groundhog Lemon Navajo Vallecito	22 40 1696 126	10 22 838 60	14 27 834 81	7 15 50				+ 1953	1967 period.

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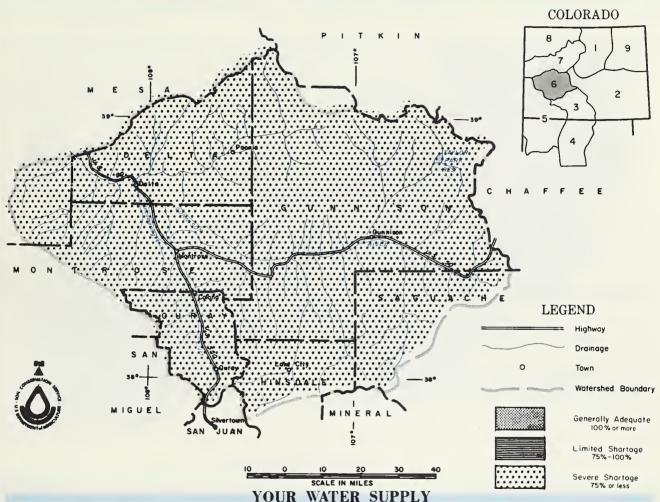


FIRST CLASS N

WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE GUNNISON RIVER WATERSHED IN COLORADO

as of April 1, 1972

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLORADO EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



STREAMFLOW FORECASTS HAVE BEEN SHARPLY REDUCED FROM LAST MONTH ON ALL STREAMS
IN THE GUNNISON BASIN. FORECAST NOW RANGE FROM 70 TO 80 PERCENT OF THE 1953-67
AVERAGE. BELOW AVERAGE SNOWFALL AND WARM TEMPERATURES COMBINED TO REDUCE THE
SNOWPACK CONSIDERABLY. RESERVOIR STORAGE IN BLUE MESA AND MORROW POINT IS
SLIGHTLY ABOVE LAST YEAR. WATER SUPPLIES WILL BE LIMITED UNLESS ABOVE AVERAGE
PRECIPITATION OCCURS DURING THE REMAINDER OF THE SEASON.

This report prepared by

JACK N. WASHICHEK and RONALD E. MORELAND
SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE
DENVER, COLORADO

M.D. BURDIÇK.—STATE CONSERVATIONIST

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

OENVER. COLORADO

GLENWOOD SPRINGS, COLORADO

	FORE-	% of	+		Flow	Period
FORECAST POINT	CAST	Average	Average	STREAM or AREA	Spring Season	Late Season
Gunnison Inflow to Blue Mesa Gunnison nr Grand Junction Surface Cr. nr Cedaridge Uncompangre at Colona	575 800 13 90	75 70 81 70	767 1137 16 129	North Fork of Gunnison Taylor	Avg. Avg.	Fair Fair

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS TE	AN3)				
RIVER BASIN	Number of	THIS YEAR'S SNOW			
and/or	Courses	WATER AS PERCENT OF			
SUB-WATERSHED	Averaged	Last Year	Average +		
Gunnison	12	87	84		
Surface Creek	3	80	80		
Uncompahgre	3	78	68		

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:		
Gunnison	Stations	124	111	
Surface Creek		74	103	
Uncompahgre		74	103	

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable	U	sable Stora	ge
RESERVOIR	Capacity	This Year	Last Year	Average †
Blue Mesa Morrow Point Taylor	830 121 106	321 116 70	306 115 92	 58

RESERVOIR	STORAGE	(Thousand	Ac. Ft	.) E	END OF MONTH

	MESERVUIR STURAGE (iiousaiiu i	AG. FL.	END OF N	HTMON
	RESERVOIR	Usable	U	sable Stora	age
7	RESERVOIR	Capacity	This Year	Last Year	Average †
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İ					
1					
-					
1					

+ 1953-1967 period.

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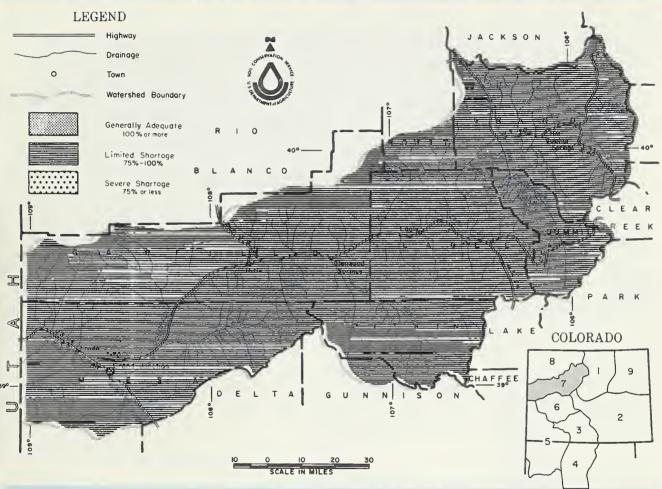


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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE COLORADO RIVER WATERSHED IN COLORADO

as of April 1, 1972

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE COLORADO EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



YOUR WATER SUPPLY

WATER SUPPLY FORECASTS DROPPED SHARPLY THIS MONTH. THIS WAS THE DIRECT RESULT OF PRACTICALLY NO INCREASE IN THE SNOWPACK DURING MARCH. THE ONLY TWO BASINS THAT HAVE ABOVE NORMAL SNOW ARE THE BLUE RIVER AND COLORADO MAINSTEM. THESE BASINS ARE JUST SLIGHTLY ABOVE NORMAL. RESERVOIR STORAGE IS GOOD AND WILL PROVIDE AN EXCELLENT SUPPLEMENT TO SUMMER FLOWS. CONSIDERABLY MORE SNOW IS NEEDED TO INSURE ADEQUATE WATER THIS SUMMER.

This report prepared by

JACK N. WASHICHEK and RONALD E. MORELAND
SNDW SURVEY UNIT. SDIL CONSERVATION SERVICE
DENVER, CDLDRADO

M. O. BURDICK
STATE CONSERVATIONIST

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
DENVER, COLDRADO

GLENWOOD SPRINGS, COLDRADO

STREAMFLOW FORECASTS (1000 Ac. Ft.) Apr-Sept

WATER SUPPL	Y OUTLOOK	Expressed as "Poor, Fair, Average, Expressed as "Poor, Fair, Average, Expressed to Usual Supp
-------------	-----------	---

	,			WATER COTTER COTECON CE	ilent with Kesper	t to Osuai Supp
5005 04 07 DOWN	FORE-	% of	+		Flow	Period
FORECAST POINT	CAST	Average	Average		Spring Season	Late Season
Blue ab Green Mt. (1) Colo. Rv. inflow to Granby Res. (2)	225	95 94	236 219	Brush Eagle River Gypsum Creek	Fair Fair Fair	Avg. Avg. Avg.
Colo. Rv. nr Dotsero (3) Roaring Fork at	300	95	375			
Glenwood Springs (4) Wm. Fk nr Par. (5) Will. Cr. inflow to	600 55	87 92	692 60			
Will. Cr. Res Colo. nr Cameo (6)	40 2000	87 90 :	46 2216			

(1) Observed flow plus diversions through Roberts Tunnel and change in storage in Dillon Reservoir. (2) Observed flow corrected for change in storage in Lake Granby as furnished by U.S.B.R. and diversions by Adams Tunnel and Grand River Ditch. (3) Observed flow plus the changes as indicated in (1) (2) and (5) plus Moffat Ditch and change in Homestake, Williams Fork, Green Mt. and Willow Creek Reservoirs. (4) Observed flow plus diversions through Divide and Twin Lakes Tunnels plus change in storage in Ruedi Reservoir. (5) Observed flow plus diversions through August P. Gumlick Tunnel. (6) Observed flow plus the changes as indicated in (3) and (4).

SUMMARY Of SNOW MEASUREMENTS

SOIL MOISTURF

SO	IL	M	01	S	TI	J	R	E

Number of Courses			RIVER BASIN	Number of	as PER	S MOISTURE CENT OF:
Averaged	Last Year	Average +		Stations	Last Year	Average †
8	83	102	Blue River.	1	84	108
21	78	103	Colorado Colorado	3	81	118
3	81	83	Roaring Fork	1	69	89
7	71	85	Willow	1 1	83	122
2	77	96				
2	79	92				
	8 21 3 7 2	National	Courses Averaged WATER AS PERCENT OF Last Year Average † 8 83 102 21 78 103 3 81 83 7 71 85 2 77 96	Note	Note	Name

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	STORAGE	(Thousand Ac	: Ft.)	END OF MONTH

RESERVOIR Usabl	Usable	ι	Jsable Stor	age	DECEDITOR .	Usable	Usable Storage		
KESEKVOIK	Capacity	This Year	Last Year	Average †	RESERVOIR	Capacity	This Year	Last Year	Average
Dillon Granby Green Mountain Homestake	254 466 147 43	236 316 63 6	246 351 55 15	233 233 63 	Ruedi Williams Fork Willow Creek Vega	101 97 9 32	62 52 8 16	61 45 8 18	27 6 11

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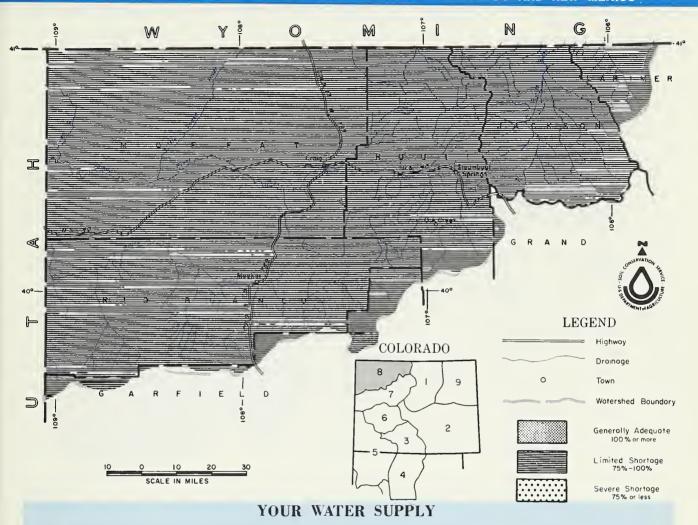


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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE YAMPA, WHITE, AND NORTH PLATTE RIVER WATERSHEDS IN COLORADO

as of April 1, 1972

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE COLORADO EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



STREAMFLOW FORECASTS ARE MUCH LOWER THIS MONTH THAN LAST MONTH. FORECASTS

FOR THE APRIL-SEPTEMBER PERIOD RANGE FROM 80 TO 100 PERCENT OF THE 1953-67

AVERAGE. WARM TEMPERATURES, HIGH WINDS AND LOW SNOWFALL HAS STARTED MELTING

THE SNOWPACK EARLIER THAN USUAL. THE SOIL MOISTURE CONDITIONS IN THE

MOUNTAIN AREAS ARE ABOVE AVERAGE.

This report prepared by

JACK N. WASHICHEK and RONALO E. MORELANO

SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE

OENVER, COLORAGO

M. O. BURDICK---STATE CONSERVATIONIST

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

OENVER, COLORADO

GLENWOOD SPRINGS, COLORADO

CTREAMELOW CORPORATE (1900 . . . Anr-Sent

STREAMFLOW FORECASTS (1000 A	Ac. Ft.)	Apr-	Sept	WATER SUPPLY OUTLOOK Expre	essed as "Poor, F ent" With Respec	air, Average, Ex- t to Usual Supply.	
TODGE LET POULT	FORE-	FORE- % of . +			Flow Period		
FORECAST POINT	CAST	Average	Average	STREAM or AREA	Spring Season	Late Season	
Elk at Clark Laramie at Glendevey Little Snake at Lily No. Platte at Northgate White nr Meeker Yampa nr Maybell Yampa at Steamboat Springs	185 56 277 190 235 800 240	97 92 100 88 80 94 92	191 61 277 215 293 853 260	Canadian River Hunt Creek Illinois River Michigan River Oak Creek Trout Creek	Avg. Avg. Avg. Avg. Avg.	Avg. Fair Avg. Avg. Fair	

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

(COM ANISON WITH PREVIOUS 1E	-/11/3/			
RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	WATER AS	AR'S SNOW PERCENT OF	
Elk Laramie North Platte White Yampa	3 3 5 2 6	80 74 69 65 74	95 97 94 80 97	Laram North Yampa

COIL MOICTURE

SUIL MUISTURE				
RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year Average		
		Last Tear	Average †	
Laramie North Platte Yampa	1 2 1	83 100 100	122 131 114	

+ 1953-1967 period.

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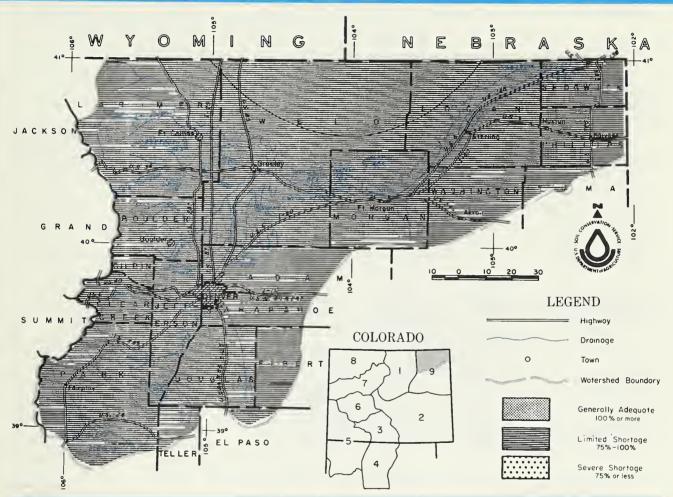


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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE LOWER SOUTH PLATTE RIVER WATERSHED IN COLORADO

as of April 1, 1972

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



YOUR WATER SUPPLY

STREAMFLOW FORECASTS WERE REDUCED AS MUCH AS TWENTY PERCENT ON THE SOUTH PLATTE STREAMS. THIS WAS DUE TO A CONTINUED LACK OF SNOWFALL AND ABOVE SEASONAL TEMPERATURES. IF APRIL SNOWFALL IS AT LEAST AVERAGE, WATER SUPPLIES SHOULD STILL BE ADEQUATE. CARRY-OVER STORAGE IS 122 PERCENT OF NORMAL AND WILL PROVIDE AN EXCELLENT SUPPLEMENT. SOILS ALONG THE PLATTE ARE GENERALLY DRY. SMALLER STREAMS IN THE AREAS SHOULD HAVE FAIRLY GOOD EARLY FLOWS.

This report prepared by

JACK N. WASHICHEK and RONALO E. MORELANO
SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE
ORNVER, COLORADO

M. O. BURDICK ---STATE CONSERVATIONIST

U. S. DEPARIMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

OENVER, COLORADO

STERLING/COLORADO

Apr-Sept WATER CHERRY NITTIANK Expressed as "Poor, Fair, Average, Ex-

STREAMFLUW FURECASTS (1000)	AC. Ft.)			WATER SUPPLY DUILUUK celle	ent" With Respect	to Usual Supply.	
	FORE-	% of	+		Flow Period		
FORECAST POINT	CAST	Average	Average	STREAM or AREA	Spring Season	Late Season	
Big Thompson at Drake (1) Boulder at Orodell Cache La Poudre at Canyon Mouth (2) Clear Cr. at Golden (3) Saint Vrain at Lyons (4)	45 195 105 60	92	100 49 215 119 70	South Platte from Greeley to Fort Morgan South Platte from Fort Morgan to Sterling South Platte below Sterling	Avg. Avg. Avg.	Avg. Avg. Avg.	

(1) Observed flow plus by—pass to power plants. (2) Observed flow minus trans—basin diversions plus municipal and irrigation diversions. (3) Observed flow minus diversion through August P. Gumlick Tunnel. (4) Observed flow plus change in storage in Price Reservoir.

SUMMARY of SNOW MEASUREMENTS

SO	11	M	IS.	ΓII	RF
JU		141	יוו	ıu	IL

(COMPARISON WITH PREVIOUS YE	EARS)			JOIL MOIOTORE			
RIVER BASIN and/or	Number of Courses		AR'S SNOW PERCENT OF	RIVER BASIN	Number of	THIS YEAR'S MOISTUR as PERCENT OF:	
SUB-WATERSHED	Averaged	Last Year	Average +		Stations	Last Year	Average
Big Thompson Boulder Cache La Poudre Clear Creek Saint Vrain South Platte	5 3 6 6 3 3	81 96 73 78 89 117	97 97 96 86 92 113	Big Thompson Boulder Cache La Poudre Clear Creek Saint Vrain South Platte	- - 2 - 2	 93 	121 130

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

HEDERTOIN STORAGE C.	nououna	110. 11.7	END OF HONTH
RESERVOIR	Usable	Us	able Storage

RESERVOIR	Usable	Usable Storage				
RESERVOIR	Capacity	This Year	Last Year	Average †		
Carter Cheesman Eleven Mile Empire Horsetooth	97.8	79.0 78.0 32.8	106.4 73.5 96.4 32.8 116.5	81.7 49.0 72.1 29.6 106.8		

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

REDERFORM OF ORRAGE (FIND ADDRESS AND ADDR										
DECEDIAL	Usable	U	sable Stora	orage						
RESERVOIR	Capacity	This Year	Last Year	Average +						
Jackson Julesburg Prewitt Point of Rocks Riverside	35.4 28.2 32.8 70.0 57.5	34.2 22.7 27.5 69.5 59.0	33.2 19.8 27.7 69.2 61.9	34.0 21.5 16.8 58.4 49.6						

+ 1953-1967 period.

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APPENDIX I

SNOW COURSE MEASUREMENTS as of April 1, 1972

	CURRENT INFORMATION PAST RECORD									
SNOW COURSE	OATE OF SURVEY	SNOW OEPTH (INCHES)	WATER CONTENT (INCHES)	WATER C (INC LAST YEAR	AVG.					
NORTH PLATTE BASIN										
Laramie River Deadman Hill McIntyre Roach	3/30 3/28 3/28	46 31 54	15.2 11.1 17.3	13.4	16.3 10.5 18.2					
North Platte River Cameron Pass Columbine Lodge Northgate Park View Willow Cr. Pass(B) SOUTH PLATTE BASIN	3/27 3/29 3/27 3/28 3/28	69 60 8 25 33	28.4 24.2 2.5 7.2 10.5	38.6 31.2 7.9 11.8 15.4	23.5 6.2					
Boulder Creek Baltimore Boulder Falls University Camp	3/29 3/29 3/29	15 43 58	5.2 14.3 19.3	7.1 14.2 19.1	5.9 13.3 20.7					
Big Thompson River Deer Ridge Hidden Valley Lake Irene (B) Long's Peak Two Mile	4/2 4/3 3/26 3/31 4/2	6 30 56 41 58	1.3 9.0 20.2 12.3 17.3	27.3	5.0 11.0 20.7 10.7 14.5					
Cache La Poudre Bennett Creek Big South Cameron Pass Chambers Lake Deadman Hill Hour Glass Lake Joe Wright Lost Lake Pine Creek Red Feather	3/28 3/29 3/27 3/29 3/30 3/27 3/29 3/30 3/30	23 1 69 19 46 22 65 32 6	4.7 0.2 28.4 7.4 15.2 6.1 22.4 12.6 0.3 4.9	8.9 0.5 38.6 12.1 20.7 7.7 29.3 16.0 0.7 7.9	2.4 26.5 9.1 16.3 6.8 11.5 1.9					
Clear Creek Baltimore (B) Berthoud Falls Empire Grizzly Peak (B) Loveland Lift Loveland Pass	3/29 3/29 3/29 3/29 3/30 3/30	15 42 19 58 44 49	5.2 13.7 6.3 18.4 11.6 16.2	7.1 16.3 8.5 23.9 16.5 19.0	5.9 12.9 7.5 17.9 23.4 15.4					
<u>Saint Yrain River</u> Copeland Lake Ward Wild Basin	4/2 3/30 4/2	10 19 40	3.2 4.6 13.3	5.5 6.6 11.7	4.4 6.7 11.8					
South Platte River Como Geneva Park Horseshoe Mt. Hoosier Pass Jefferson Creek Mosquito Trout Creek Pass	3/29 3/29 3/28 3/30 3/29 3/29 3/28	29 19 51 48 35 35	7.4 4.8 13.7 14.3 10.2 10.2 4.3	6.5 2.7 11.5 11.6 10.3 8.7 2.2	3.5 12.9 9.2 					
ARKANSAS BASIN										
Arkansas River Bigelow Divide Cooper Hill (B) East Fork Four Mile Park Fremont Pass Garfield Hermit Lake Monarch Pass Tennessee Pass Twin Lakes Tunnel	3/29 4/1 3/30 3/30 3/30 3/29 3/30 3/29 3/30 3/30 3/30	19 48 29 15 54 41 15 50 41	2.3 11.9 8.9 3.6 15.8 12.6 2.4 16.0 10.6 12.6 2.8		9.6 4.4 16.1 13.2					

	CURRENT INFORMATION PAST RECORD						
SNOW COURSE	DATE OF SURVEY	SHOW DEPTH	WATER CONTENT (INCHES)	WATER C	ONTEN (ES)		
	SURVEY	(INCHES)	(INCHES)	YEAR	AVG. 53 67		
Cucharas River Blue Lakes Cucharas Pass LaVeta Pass (B)	3/31 3/31 3/31	7 7 10	0.6 1.2 2.6	0.0 3.9 2.4	2.9 7.3		
Purgatorie River Bourbon	3/30	14	3.4	3.4	7.1		
RIO GRANDE BASIN-COLO.							
Alamosa River Silver Lakes Summitville	3/29 3/28	1 61	0.1 17.8	0.0 17.0	5.5 18.1		
Conejos River Cumbres LaManga Platoro River Springs	3/30 3/30 3/30 3/30 3/31	22 35 27 0	8.0 11.9 9.0 0.0	10.3 8.5 1.6	18.6 16.6 4.8		
Culebra River Brown Cabin Cottonwood (B) Culebra LaVeta Pass (B) Trinchera (B)	3/29 NS 3/30 3/31 3/29	6 25 10 24	7.1 2.6 7.6	0.0 4.8 4.8 2.4	 8.4 7.3		
Rio Grande Cochetopa Pass Grayback Hiway Lake Humphrey Love Lake Pass Creek Pool Table Porcupine Santa Maria Upper Rio Grande Wolf Creek Pass Wolf Cr. Sum. (B)	3/28 3/31 3/29 3/28 3/30 3/30 3/31 3/30 3/31 3/29 3/29	28 32 56 14 24 14 21 37 2 19 43 69	6.3 10.1 18.6 3.7 8.0 4.4 5.4 11.0 0.3 6.0 16.5 24.7	6.0 11.4 17.9 3.2 3.3 3.9 1.7 6.4 0.5 4.2 15.7 21.6	5.1 26.0 5.5 11.1 5.9 10.1 3.7 6.8 27.0 28.3		
RIO GRANDE BASIN-N.M.							
Pecos River Panchuela	3/29	0	0.0	0.0	1.3		
Rio Chama Bateman Capulin Peak Chama Divide Chamita	3/29 3/29 3/29 3/29	22 0 0 4	6.7 0.0 0.0 1.3	6.4 0.0 0.0 0.7	11.4 4.0 1.4 7.5		
Rio Grande Aspen Grove Big Tesuque Blue Bird Mesa Cordova Elk Cabin Fenton Hill Hopewell Pajarito Peak Payrole Quemazon Rio En Medio Sandoval Taos Canyon Tres Ritos	3/29 3/30 3/28 3/30 3/30 3/30 3/30 3/31 3/30 3/30 3/30	3 0 1 24 0 1 22 0 4 15 4 0 6 3	1.1 0.0 0.1 6.4 0.0 1.5 5.2 1.5 0.0 1.1 0.5	0.5 0.0 0.0 5.1 0.0 0.0 1.2 2.8 0.0 0.0	10.0 2.1 2.7 0.3 6.2 8.2		
Twinning	3/31	16	4.4	1.0			
Red River Hematite Park (B) Red River	3/30 3/30	4 7	0.6	0.0 1.7	3.5 5.5		

NOTE: NS - No Survey
(B) - On Adjacent Drainage

APPENDIX I

SNOW COURSE MEASUREMENTS as of April 1, 1972

CURRENT INFORMATION PAST RECORD					CU	CURRENT INFORMATION			PAST RECORD		
SNOW COURSE	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER (CONTENT CHES)	SNOW COURSE	OATE OF SURVEY	SNOW OEPTH (INCHES)	WATER CONTENT (INCHES)	WATER C	HES)
	3011721	(Menes)	(inches)	YEAR	53 67		JONVEY	(Menes)	(INCHES)	YEAR	53 67
SAN JUAN-DOLORES BASIN						Colorado River	3/30	41	14.5	18 7	11.8
Animas River Cascade	4/3	9	3.6	4.2	10.8	Berthoud Pass	3/31	54	19.3	21.6	14.5
Lemon Mineral Creek	3/31 4/3	0 31	0.0 11.5	1.0	13.3	Berthoud Summit Cooper Hill	3/29	60 48	19.0 11.9		19.3 10.6
Molas Lake	4/3	13	4.5	9.7	12.6	Fiddler Gulch Glenmar Ranch	3/30 3/28	50 24	12.4 7.5	15.0	
Purgatory Red Mt. Pass (B)	4/3	43 79	16.7 29.5	12.0 29.1	30.1	Gore Pass	3/29	33	10.3	12.5	10.0
Silverton Sub-Sta.	4/3	0	0.0	2.4	5.1	Grand Lake Lake Irene	3/26	26 56	8.0	9.3	8.2
Spud Mountain	4/3	42	17.4	16.4	23.1	Lapland	3/28	36	12.4	15.9	9.9
<u>Dolores River</u> Lizzard Head	3/30	32	12.4	13.2	16.0	Lulu Lynx Pass	3/28	59 37	19.5 11.8		17.0 12.0
Lone Cone Rico	3/29 3/30	31 0	10.7	13.4	5.4	McKenzie Gulch Middle Fork	3/29 3/28	17	4.8 8.8	5.7	9.1
Telluride	3/30	7	1.6	5.6	5.7	Milner	3/26	35	12.1	17.4	13.3
Trout Lake	3/30	22	7.7	12.4	13.2	North Inlet Pando	3/26	27 29	7.4	10.3	8.7
San Juan River Chama Divide (B)	3/29	0	0.0	0.0	1.4	Phantom Valley	3/26 3/30	20 34	7.3	13.9	10.4
Chamita (B) Upper San Juan	3/29 3/29	4 36	1.3 12.6	0.7 17.5	7.5	Ranch Creek Tennessee Pass(B)	3/30	41	10.6	14.5	9.4
Wolf Cr. Pass (B)	3/29	43	16.5	15.7	27.0	Vail Pass Vasquez	3/29 3/31	49 50	17.3 15.1	22.5	17.1 12.4
Wolf Cr. Summit	3/29	69	24.7	21.6	28.3	Roaring Fork River	5/51		10.1	10.5	12.7
GUNNISON BASIN						Aspen	3/28	51 52	16.7 17.2		16.4
Gunnison River Alexander Lake	3/30	50	18.7	21.3		Chapman Independence Pass	3/29 3/30	50	15.1	18.1	17.7
Blue Mesa Butte	3/30 3/30	13 43	3.2 13.4	5.1	7.9	Ivanhoe Kiln	3/30	58 48	18.9	23.0	17.9
Cochetopa Pass (B)	3/28	28	6.3	6.0	5.1	Last Chance	3/30	43	13.5	13.3	
Crested Butte Keystone	3/30 3/29	30 47	11.2 17.9	9.7		Lift McClure Pass	3/28	49 28	14.4	20.7	19.0 14.6
Lake City Mesa Lakes (B)	3/28 3/28	26 38	7.2 11.6	7.2	7.7	Nast	3/30 3/29	17 28	4.9 9.7	7.8 15.2	5.3
McClure Pass	3/29	28	10.0	15.3	14.6	North Lost Trail Williams Fork River	3/23	20	9.7	15.2	14.1
Park Cone Park Reservoir	3/29 3/30	38 57	10.4 19.8		10.9	Glenmar Ranch	3/28	24	7.5	10.3	7.9
Porphyry Creek Tomichi	3/29 3/29	50 38	14.4 12.7	16.6	16.9 12.2	Jones Pass Middle Fork	3/28	47 30	15.3	22.3	9.1
Surface Creek	3/23	30	12.7	12.9	12.2	Willow Creek					
Alexander Lake	3/30	50	18.7		21.4	Granby Willow Cr. Pass	3/28	26 33	7.8 10.5	7.7	7.5 12.5
Mesa Lakes (B) Park Reservoir	3/28 3/30	38 57	11.6 19.8		17.5 23.6	Plateau Creek	0, 20		10.0	10.1	
Uncompangre River						Mesa Lakes	3/28 3/30	38 57	11.6		17.5 23.6
Ironton Park Red Mountain Pass	3/29 4/3	20	5.3	00 7	17.9 30.1	Park Reservoir Trickle Divide	3/30		23.5		25.2
Telluride (B)	3/30	79 7	29.5 1.6		5.7	YAMPA BASIN					
COLORADO BASIN						Elk River	0.400	0.5	0.7		10.0
Blue River Blue River	3/30	32	8.7	8.6	8.5	Clark Elk River	3/30 3/30	26 46	9.1 16.3	22.7	10.0 16.8
Fremont Pass	3/30	54	15.8	19.4	16.1	Hahn's Peak	3/30	34	12.3	15.7	12.9
Frisco Grizzly Peak	3/29 3/29	24 58	6.8 18.4		7.5 17.9	White River Burro Mountain	3/30	37	12.7	22.6	17.0
Hoosier Pass (B)	3/30 3/29	48 60	14.3 18.8	11.6	12.9 17.4	Rio Blanco	3/29	38	13.5		15.8
Shrine Pass Snake River	3/29	19	5.4	10.9	7.6	Yampa River Bear River	3/27	37	10.4	13 4	11.1
Summit Ranch	3/29	28	8.4	9.3	7.1	Columbine (B)	3/29	60	24.2	31.2	23.5 19.9
						Dry Lake Lynx Pass (B)	3/28 3/29	55 37	19.0 11.8	16.2	12.0
						Rabbit Ears Yampa View	3/30	76 36	25.4 12.0	35.7	25.7 14.3
						Tampa View	3/30	30	12.0	15.0	

NOTE: NS - No Survey
(B) - On Adjacent Drainage

APPENDIX II

SOIL MOISTURE MEASUREMENTS as of April 1, 1972

STATION	DATE OF SURVEY	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVG. ALL DATA
NORTH PLATTE BASIN					
North Platte River					
Muddy Pass Willow Pass	3/30/72 3/28/72	11.1 9.5	8.9 7.7	7.3 9.3	6.4 6.3
SOUTH PLATTE BASIN					
Boulder Creek					
Alpine Camp	NS	6.9		4.1	3.4
Big Thompson River					
Beaver Dam Guard Station Two Mile	NS NS NS	7.1 6.9 4.9	 	4.1 4.7	3.3 3.6 2.6
Clear Creek					
Clear Creek Hoop Creek	3/30/72 3/30/72	9.5 4.9	6.5 2.7	6.6 3.3	5.0 2.6
Cache La Poudre River					
Feather Laramie Road	NS NS	10.1 12.4	 	5.3 7.9	4.0 6.8
South Platte River					
Hoosier Pass Kenosha Pass	3/30/72 3/29/72	7.8 4.4	4.8 3.4	4.3 2.9	4.3 2.0
ARKANSAS BASIN					
Arkansas River					
Garfield Leadville Twin Lakes Tunnel	3/29/72 3/30/72 3/30/72	6.7 7.8 4.5	3.9 3.1 1.5	4.6 3.2 1.8	3.5 3.7 2.5
RIO GRANDE BASIN - COLORADO					
Conejos River					
Mogote	3/31/72	10.7	5.4	4.6	6.0
Rio Grande					
Bristol View LaVeta Pass	3/30/72 3/31/72	6.1 11.9	5.7 7.6	5.1 8.7	3.4 8.7
RIO GRANDE BASIN - NEW MEXICO					
Rio Chama					
Bateman Chamita	3/29/72 3/29/72	6.7 8.0	4.4 5.2	1.9	3.2 4.1
Rio Grande					
Aqua Piedra Big Tesuque Rio En Medio Taos Canyon	3/29/72 3/31/72 3/31/72 3/29/72	7.2 3.7 3.5 3.3	4.8 2.6 2.4 2.7	3.9 0.9 0.4 2.3	3.7 1.9 1.2 2.3
Red River					
Red Summit	3/30/72	4.9	1.6	1.5	1.9

ALL PROFILES 4 FEET DEEP

APPENDIX II

SOIL MOISTURE MEASUREMENTS as of April 1, 1972

STATION	DATE OF SURVEY	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVG. ALL DATA
ANIMAS - SAN JUAN BASINS					
Animas River					
Cascade Mineral Creek Molas Lake	4/3/72 4/3/72 4/3/72	9.1 5.7 9.4	5.3 3.1 3.7	6.4 4.1 3.4	6.9 3.9 4.4
<u>Dolores</u> <u>River</u>					
Dolores Lizzard Head Rico	NS 3/30/72 3/30/72	19.6 11.8 13.8	4.4 10.5	8.4 5.0 10.5	8. 7. 8.
GUNNISON BASIN					
Gunnison River					
King	3/29/72	3.3	2.1	1.7	1.
COLORADO BASIN (Mainstem)					
Blue River					
Blue River	3/30/72	4.2	2.6	3.1	2.
<u>Colorado</u> <u>River</u>					
Berthoud Pass Gore Grand Mesa Ranch Creek Vail	3/29/72 3/29/72 3/30/72 3/30/72 3/29/72	3.9 4.9 12.5 8.7 12.3	2.5 3.1 9.3 5.0 9.0	3.1 3.5 12.5 5.9 10.5	2. 2. 9. 5. 6.
Roaring Fork River					
Placita	3/28/72	9.3	5.8	8.4	6.
YAMPA BASIN					
Yampa River					
Hahn's Peak	3/30/72	13.1	13.0	13.0	11.
				·	
	4				

ALL PROFILES 4 FEET DEEP

LIST of COOPERATORS

The following organizations cooperate in snow surveys for the Colorado, Platte, Arkansas and Rio Grande watersheds. Many other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

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Colorado State Engineer New Mexico State Engineer Nebraska State Engineer Colorado State University Experiment Station Rocky Mountain Forest and Range Experiment Station

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Forest Service Soil Conservation Service

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Bureau of Reclamation Geological Survey National Park Service Indian Service

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